NOVEMBER/DECEMBER 2024

CCA62/CCS62/CSC62 — PYTHON PROGRAMMING

Time : Three hours Maximum : 75 marks

SHANMUGA INDUSTRIES ARTS & SCIENCE COLLEGE LIBRARY

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define Identifier.
2. Give the use of complex() function.
3. What is the difference between continue and break?
4. Define string traversing.
5. What is meant by scope of the variable?
6. Give the purpose of zip( ) function.
7. Define slicing.
8. What is meant by flexible sorting?
9. Define object.
10. How to handle exception?

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Explain about OSI security architecture.

Or

(b) Discuss on security attack tree.

12. (a) Elaborate on the concept of steganography.

Or

(b) Describe briefly on estimation of block cipher principles.

13. (a) Write about elliptic curve over real numbers.

Or

(b) Explain about encryption and decryption of elliptic curve.

14. (a) Discuss on HMAC.

Or

(b) Elaborate on CMAC principles.

15. (a) Describe E-mail security in detail.

Or

(b) Write notes on advantages of firewall.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the fundamental security design principles.

17. Discuss on Data encryption standards in detail

18. Describe in detail DiffieHellman key exchange.

19. Write about the message authentication codes.

20. Describe the principles password management.

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